

**CALFED Bay-Delta Program**

**Ecosystem Restoration Program Planning**

**Development of Implementation Objectives and Targets for Key Resources**

**Ecological Zone: Mainstem Rivers**

**Ecological Subzone: San Joaquin River (Gravelly Ford to Mendota Pool)**

**KEY RESOURCES AND STREAM HABITATS:**

**Resource Guild: Native resident fish community**

**Stream habitat: All life stages**

**Implementation Objective: Maintain diversity of native fishes.**

**Target: No numeric target.**

**Resource Guild: Macroinvertebrates**

**Stream habitat: Larval stages.**

**Implementation Objective: Maintain diverse community of macroinvertebrates.**

**Target: No numeric target.**

**KEY ECOSYSTEM FUNCTIONS/PROCESSES AND STRESSORS:**

**Function/Process: Hydrologic Cycle**

**Stressor: Upstream water diversions significantly reduce streamflow; in most water years, reach receives no flow except for flood control releases.**

**Implementation Objective: Maintain an active stream channel.**

**Target: No numeric target.**

**Action:** Evaluate the potential for flow restoration.

**Function/Process:** Connectivity between key habitats

**Stressor:** Up and downstream migration of native anadromous and resident fishes is blocked in this reach by the lack of continuous streamflow from Friant Dam to the confluence with the Merced River.

**Implementation Objective:** Restore continuous streamflow between Friant Dam and the confluence with the Merced River.

**Target:** No numeric target.

**Action:** Evaluate the feasibility of maintaining continuous streamflow.

**Function/Process:** Sediment Budget/Channel Morphology

**Stressor:** High rates of sediment input and impaired sediment transport due to altered streamflow result in accumulation of fine sediments.

**Implementation Objective:** Restore balanced sediment budget.

**Target:** Maintain sediment input in balance with transport from the system.

**Action:** Encourage implementation of improved land management and livestock grazing practices along stream/riparian zones to reduce streambank erosion and sediment input.

Implement management program for fine sediments.